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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,973	11/26/2003	Kelly Ann Mohr	144761	9045
John S. Beulic	7590 09/05/2007 k		EXAM	INER
Armstrong Teasdale LLP Suite 2600 One Metropolitan Square St. Louis, MO 63102			KISH, JAMES M	
			ART UNIT	PAPER NUMBER
			3737	
			MAIL DATE	DELIVERY MODE
			09/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Offi = A = 4! = O	10/722,973	MOHR ET AL.				
Office Action Summary	Examiner	Art Unit				
The \$44H MAD DATE 144	James Kish	3737				
The MAILING DATE of this communication app Period for Reply	vears on the cover sheet with the c	orresponaence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>24 January 2007</u> .						
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-20</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.		•				
7) Claim(s) is/are objected to.	e alaatian rassiissas ist					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
	. *					
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summary Paper No(s)/Mail D					
Notice of Draitspersor's Faterit Drawing Review (FTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:					

DETAILED ACTION

Response to Arguments

Applicant's arguments filed January 24, 2007 have been fully considered but they are not persuasive. Applicant argues that the amendments to the independent claims places the application in condition for allowance. The Examiner respectfully disagrees in lieu of the following Office Action.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Drummond et al. (US Patent No. 6,628,743) in view of Devito et al. (US Patent No. 5,421,331). Drummond discloses a method for acquiring and analyzing cardiac data. A user can select which anatomical region of interest is to be analyzed (column 6, lines 31-35) and at which point in time during the cardiac cycle (column 8, lines 50-55). The method calculates parameters such as end diastole volume, end systole volume, stroke volume, ejection fraction and cardiac output (column 10, lines 30-35). The system prompts for user verification, as well as providing the ability for user interruption of the process (column 10, lines 60-65). An enhancement detection algorithm is used for

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differentiating regions of the heart and includes and edge detection and segmentation algorithm (column 7, lines 1-6). The process allows for any modality of imaging relevant to cardiac imaging, including CT, PET and MRI (column 3, lines 5-12). See column 9, line 23 through column 10, line 48 for further description of the prior art. Drummond also discusses providing long axis and short axis images of the heart. However, the specific method of acquiring these images is not explicitly described. Devito teaches a method for automatically identifying the long axis of the left ventricle. A first estimate of the long axis is created and is then fine tuned through the process described at column 4, line 48 through column 6, line 22. While never explicitly stating that Devito is determining the axis of inertia, as defined in the specification of the current application the axis of inertia is a first estimate of the long axis. Therefore, Devito teaches this limitation. It would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate an automated long axis detection process intothe system and methods of Drummond to increase the utility of such a device and allow better results during cardiac studies (column 1, lines 44-46).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Kish whose telephone number is 571-272-5554. The examiner can normally be reached on 8:30 - 5:00 ~ Mon. - Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JMK

BRIAN L. CASLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

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